Format No: CP/TF/01

# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-20-07** **Date: 25-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Agency** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 20-08-18 |
| **Sample ID No** | : | 2018-08-20-07 /04 |
| **Sample Type /Size** | : | Precast Cover Slab |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 21/08/2018 |

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (kg) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.116 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.122 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.118 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

Note:
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## TEST RESULTS FOR CHAIN LINK FENCING

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-24-08** **Date: 25-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Agency** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Sourse of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-08-18 |
| **Sample ID No** | : | 2018-08-24-08/01 |
| **Type of Sample** | : | Chain Link Fencing |
| **Reference to BIS codes** | : | IS 2062:2011 |
| **Date of testing** | : | 24-08-18 |

**TESTS RESULT FOR WIRE MESH**

| SL.NO | Description | Result |
|---|---|---|
| 1 | Average Thickness in mm | 4.05 |
| 2 | Dia of linewire in mm | 3.13 |
| 3 | Mesh size in mm | 50.02 |
| 4 | Nominaldia of meshwire in mm | 2.51 |
| 5 | Bend Test | Satisfactory |

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# TEST RESULTES FOR MS BLOCK PIPE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-24-08** **Date: 25-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Agency** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Project Name** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-08-18 |
| **Sample ID No** | : | 2018-08-24-08/03 |
| **Type of Sample** | : | M.S Block Pipe |
| **Reference to BIS codes** | : | IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of testing** | : | 24-08-18 |

**TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE**

| Sl. No | Description | Result | Required as per as IS Code 2062: 2011 | Remarks |
|---|---|---|---|---|
| 1 | Yeild Stress (N/mm2) | 275 | 250N/mm$^2$ | Satisfactory |
| 2 | Tensile Strength (N/mm2) | 485 | 410N/mm$^2$ | Satisfactory |
| 3 | Elongation Percentage (%) | 23.5 | Min 23% | Satisfactory |

Note:
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# TEST RESULTES FOR MS RECTANGULAR POLE

Date: 25-08-18

**Lab ID** : CP-2018-08-24-08

**Customer** : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

**Address** : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

**Project Name** : Providing Chainlink fencing at 4th B cross in B sector of ward No.04.

**Agency** : Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore.

**Customer's Reference** : EE(YNK.D)E-PMT-21/W.O/25/2018-19

**Sourse of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 24-08-18

**Sample ID No** : 2018-08-24-08/02

**Type of Sample** : M.S Rectangular Pole(60X60X6)mm

**Reference to BIS codes** : IS:1608-2005(RA 2011), IS 1599-2012.

**Date of testing** : 24-08-18

**TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER**

| SL.NO | Description | Result | Required as per IS Code 2062:2011 | Remarks |
|---|---|---|---|---|
| 1 | Weight/Meter (Kg /m) | 5.82 | 5.8 Kg/m | Satisfactory |
| 2 | Yeild stress (N/mm2) | 271 | 250N/mm$^2$ | Satisfactory |
| 3 | Tensile Strength (N/mm2) | 489 | 410N/mm$^2$ | Satisfactory |
| 4 | Elongation Percentage (%) | 23.52 | Min23% | Satisfactory |
| 5 | Bend Test | Satisfactory | Should not Crack or fracture | Satisfactory |

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Page 1/1
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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2018-08-30-03 **Date: 04/09/2018**

**Customer** : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

**Address** : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

**Project Name** : Providing Chainlink fencing at 4th B cross in B sector of ward No.04.

**Agency** : Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore.

**Customer's Reference** : EE(YNK.D)E-PMT-21/W.O/25/2018-19

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 30-08-18

**Sample ID No** : 2018-08-30-03 /01

**Customer ID** : PCC

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M15 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 04/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 28/08/2018 | 04/09/2018 | 149.69 X 149.43 X 150.20 | 22368 | 8.326 | 272.9 | 12.2 | 12.3 |
| 2 | PCC | M15 | 28/08/2018 | 04/09/2018 | 150.31 X 151.89 X 150.77 | 22829 | 8.403 | 292.2 | 12.8 | |
| 3 | PCC | M15 | 28/08/2018 | 04/09/2018 | 149.33 X 151.73 X 150.47 | 22658 | 8.266 | 267.4 | 11.8 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/09/2018

| | | |
|---|---|---|
| Lab ID | : | CP-2018-08-30-03 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| Agency | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| Customer's Reference | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 30-08-18 |
| Sample ID No | : | 2018-08-30-03 /02 |
| Customer ID | : | PCC |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M15 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 25/09/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PCC | M15 | 28/08/2018 | 25/09/2018 | 150.45 X 150.44 X 149.91 | 22634 | 8.455 | 418.0 | 18.5 | 18.3 |
| 2 | PCC | M15 | 28/08/2018 | 25/09/2018 | 151.74 X 149.59 X 151.71 | 22698 | 8.314 | 403.9 | 17.8 | |
| 3 | PCC | M15 | 28/08/2018 | 25/09/2018 | 151.31 X 151.14 X 151.22 | 22870 | 8.302 | 426.1 | 18.6 | |

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

| | | |
|---|---|---|
| **Lab ID** | : | CP-2018-08-20-07 **Date: 23-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Agency** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 20-08-18 |
| **Sample ID No** | : | 2018-08-20-07 /01 |
| **Sample Type** | : | ACC 53grade |
| **Reference to BIS codes** | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 (Part 1,2 3,4,5, 6,11):1988<br>IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4<br>IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5<br>IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5<br>IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6 |
| **Date of test** | : | 21-08-18 |
| **Environmental Conditions during test** | : | Temperature: 26°C<br>Humidity: 72% |

| SLNo. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | Fineness by dry sieving (%) | 1.44 | _ |
| 2 | Finess by Air permeablity method ($m^2$/kg,Min) | 275.6 | 225$m^2$/kg, Min |
| 3 | Density (gm/cc) | 3.13 | _ |
| 4 | Standard Consistency (%) | 28.0% | Not specified |
| 5 | Initial Setting time | 175 minutes | Not less than 30 minutes |
| 6 | Final Setting time | 280 minutes | Not more than 600 minutes |
| 7 | Soundness (Le Chatelier's Method) | 1mm | Not more than 10 mm |

**Note:**

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All information furnished by Customer/Representative

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## TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 18-09-18

| | | |
|---|---|---|
| Lab ID | : | CP-2018-08-20-07 |
| Customer | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| Project Name | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| Agency | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| Customer's Reference | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 20-08-18 |
| Sample ID No | : | 2018-08-20-07 /01 |
| Sample Type | : | ACC 53grade |
| Reference to BIS codes | : | IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,<br>IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5<br>IS 4031 Part 6, Determination of Compressive Strength, Clause 6 |
| Date of test | : | 21-08-18 |
| Environmental Conditions during test | : | Temperature: 26°C<br>Humidity: 72% |

**Compressive Strength**

| Sl.No. | Physical properties | Results | Requirement as per IS 12269: 2013 |
|---|---|---|---|
| 1 | 3 Days | 28.5N/mm$^2$ | Not less than 27 N/mm$^2$ |
| 2 | 7 Days | 39.0N/mm2 | Not less than 37 N/mm$^2$ |
| 3 | 28 Days | 54.5N/mm$^2$ | Not less than 53 N/mm$^2$ |

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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-20-07** **Date: 23-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Agency** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 20-08-18 |
| **Sample ID No** | : | 2018-08-20-07 /02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 20-08-18 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 234 | 234 | 1.6 | 98.4 | 90-100 |
| 3 | 20 mm | 5334 | 5568 | 37.1 | 62.9 | 30-70 |
| 4 | 10 mm | 4788 | 10356 | 69.0 | 31.0 | 10-35 |
| 5 | 4.75 mm | 4354 | 14710 | 98.1 | 1.9 | 0-5 |
| 6 | Pan | 290 | 15000 | 100.0 | 0 | --- |



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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-20-07** **Date: 22-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Agency** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 20-08-18 |
| **Sample ID No** | : | 2018-08-20-07 /02(b) |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 20-08-18 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : 5000 **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 245 | 245 | 4.9 | 95.1 | 90-100 |
| 3 | 10 mm | 2675 | 2920 | 58.4 | 41.6 | 25-55 |
| 4 | 4.75 mm | 1798 | 4718 | 94.4 | 5.6 | 0-10 |
| 5 | Pan | 282 | 5000 | 100 | 0 | – |

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



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Format No: CP/TF/01

# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-20-07** **Date: 22-08-18** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Satellite Town Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Providing Chainlink fencing at 4th B cross in B sector of ward No.04. |
| **Agency** | : | Sri.Chenna Krishna.P (Chennigarayaswamy Constructions), No.152,2nd Block, 3rd Stage, Saniguruvanahalli, Rajajinagra, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-21/W.O/25/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 20-08-18 |
| **Sample ID No** | : | 2018-08-20-07 /03 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 20-08-18 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0.0 | 100.0 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 82 | 82 | 8.2 | 91.8 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 165 | 247 | 24.7 | 75.3 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 177 | 424 | 42.4 | 57.6 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 182 | 606 | 60.6 | 39.4 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 177 | 783 | 78.3 | 21.7 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 134 | 917 | 91.7 | 8.3 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 83 | 1000 | 100.0 | 0.0 | --- | --- | --- | --- |
| **Result :The tested Sample Conforms to Grading Zone II** | | | | | | | | | |



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